PA1)T COOPERATION TREATY)

From the	INTERN	ATIONAL	BUREAU
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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
09 February 2001 (09.02.01)

International application No.
PCT/KR99/00277

International filing date (day/month/year)
05 June 1999 (05.06.99)

Applicant
PARK, Hyo, Joon

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	01 November 2000 (01.11.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

INTERNATIONAL SEARCH REPORT

International application No.

		PC1/KR 99/002	//
CLA	ASSIFICATION OF SUBJECT MATTER		
IPC ⁷ : C	3 06 F 12/14; H 04 L 9/00		
According	g to International Patent Classification (IPC) or to both na	ational classification and IPC	
B. FIE	LDS SEARCHED		
	documentation searched (classification system followed 6 06 F; H 04 L	by classification symbols)	
Documen	tation searched other than minimum documentation to the	e extent that such documents are included in	n the fields searched
Electronic	c data base consulted during the international search (narr	ne of data base and, where practicable, search	ch terms used)
WPI, P.	AJ, EPODOC		
C. DO	CUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriat	e, of the relevant passages	Relevant to claim No.
A	WO 98/42098 A1 (CRYPOWORKS) 29 totality.	April 1998 (29.04.98)	
	her documents are listed in the continuation of Box C.	See patent family annex.	
	I categories of cited documents: nent defining the general state of the art which is not	"T" later document published after the internati date and not in conflict with the application	
consid	ered to be of particular relevance	the principle or theory underlying the inver	ntion
filing		X" document of particular relevance; the claim considered novel or cannot be considered to	ned invention cannot be
	ent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other	when the document is taken alone	•
special	reason (as specified)	"Y" document of particular relevance; the claim considered to involve an inventive step wh	ned invention cannot be
"O" docum	nent referring to an oral disclosure, use, exhibition or other	combined with one or more other such doo being obvious to a person skilled in the art	uments, such combination
"P" docum	ent published prior to the international filing date but later than	&" document member of the same patent fami	
	ority date claimed e actual completion of the international search	Date of mailing of the international search	report
: :	6 April 2000 (06.04.2000)	31 July 2000 (31.07.	•
	mailing adress of the ISA/AT	Authorized officer	-
	n Patent Office	Fastenbauer	
	arkt 8-10; A-1014 Vienna	i asiciibadei	į
	No. 1/53424/535	Telephone No. 1/53424/447	
ronn PC	T/ISA/210 (second sheet) (July 1998)		

INTERNATIONAL SEARCH REPORT

International application No.

Pa	tent document cited in search report	Publication date	F	Patent f membe	amily	Publication date
A OW		24-09-1998	AU	Al	67591/98	12-10-1998
			EP_	A1	968585	05-01-2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT RECORD 17 OCT 2001

(PCT Artcle 36 and Rule 70)

WIFO PCT

Applicant's or agent's file reference MARS000002	FOR FURTHER ACTION	SeeNotificationofTransmit Examination Report (Form	talofInternationalPreliminary PCT/IPEA/416)
International application No. PCT/KR99/00277	International filing date(day/mor	nth/year) Priority dat	e (day/month/year)
International Patent Classification (IPC IPC7 G06F 12/14, H04L 9/00		2	
Applicant PARK, Hyo Joon			
2. This REPORT consists of a tota This report is also accompaneed and are the basis 70.16 and Section 607 of total These annexes consist of a total This report contains indications I X Basis of the report II Priority III Non-establishment IV X Reasoned statement citations and explant VI Certain documents VII Certain defects in the contains and total contains and companies.	anied by ANNEXES, i.e., sheets of for this report and/or sheets cont he Administrative Instructions und of sheets. relating to the following items: of opinion with regard to novelty, vention at under Article 35(2) with regard to nations supporting such statement	ding this cover sheet. of the description, claims and aining rectifications made the er the PCT).	d/or drawings which have been before this Authority (see Rule
Date of submission of the demamd	Date of	completion of this report	
01 NOVEMBER 2000 (01.11.2	000)	24 SEPTEMBER 2001 (2	4.09.2001)
Name and mailing address of the IPEA/ Korean Intellectual Property Office	К	zed officer IM, Jun Hak	
Facsimile No.	Telepho	one No.	





PCT/KR99/00277

	I. Basi	sis of the report	
1.	With	h regard to the elements of the international application:*	
	X	the international application as originally filed	
	\sqcap	the description:	
ı	لـــا	pages	, as originally filed
l		pages , filed with the letter of	, filed with the demand
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	Ш	the claims: pages	an ariainally filed
		pages, as amended (together with an	as originally filed , v statment) under Article 19
		pages	, filed with the demand
		pages, filed with the letter of	
	Ш	the drawings:	
		pages	, as originally filed
		pages, filed with the letter of	, filed with the demand
		the sequence listing part of the description:	
		pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
2.	the	th regard to the language, all the elements marked above were available or furnished to this Authorist international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule 23.10 the language of publication of the international application (under Rule 48.3(b)).	which is
		the language of the translation furnished for the purposes of international preliminary examina	tion(under Dules 55.2 and/
	Ш	or 55.3).	tion(under Rules 33.2 and/
3.	Wir pre	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application application in the international application in written form. filed together with the international application in computer readable form.	ation, the international
		furnished subsequently to this Authority in written form.	
	Ш	furnished subsequently to this Authority in computer readable form	
		The statement that the subsequently furnished written sequence listing does not go beyon international applicationas as filed has been furinshed.	
		The statement that the information recorded in computer readable form is identical to the write been furnished.	tten sequence listing has
4.		The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheet	
5.		This opinion has been drawn as if (some of) the amendments had not been made, since they beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	nave been considered to go
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitation under is opinion as "originally filed." and are not annexed to this report since they do not contain a 70.17).	r Article 14 are referred to mendments (Rules 70.16
**	Any r	replacement sheet containing such amendments must be referred to under item I and annexed to th	is report.

INTERNATIONAL PRODUMINARY EXAMINATION

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims Claims	1-5	YES
Industrial applicability (IA)		1-5	NO YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is given to the following documents:

D1 W0 98/42098 A1

Claims 1 to 5 seem to be novel and to involve an inventive step for the following reasons[Article 33(2) and 33(3) PCT]:

For the purpose of preventing illegal usage of digital product, the feature contained in independent claim 1 is that the user who bought usage license for a digital product can use the digital product through changing a public version of product to a personal version one. But, D1 do not disclose the changing process of the digital product format.

Claims 2-5 also comply with Articles 33(2) and 33(3) of the PCT as they are dependent claims.

Perticularly, claim 5 discloses that a user can use a digital product in a specific machine such as MP3 player. But, D1 only discloses using a digital product on a perfect computer system.

(19) World Intellectual Property Organization International Bureau



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(10) International Publication Number **WO** 00/75787 A1

Jugong Apt. 408-504, 7, Byalyang-dong, Kwacheon-si,

(51) International Patent Classification7: H04L 9/00

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(72) Inventor: PARK, Hyo, Joon [KR/KR]; Kwacheon

Kyungki-do 427-040 (KR).

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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: DIGITAL PRODUCT LICENSE CONTROL SYSTEM BASED ON INDEPENDENT DIGITAL PRODUCT REGIS-TRATION SERVER

(57) Abstract: The registration server is independent of digital product manufacturers and open to all digital product manufacturers. The manufacturer registers his digital product to the server and gets product registration file of the product from the server. The product manufacturer merges the product and the product registration file and encrypts them using manufacturer digital product license control program. If a public digital product is executed on user computer, said digital product is linked to digital product execution program which is subsystem of user digital product license control program. The program decrypts said digital product and reads the product ID from the product registration file and checks the license file received from a digital product registration server. If there is no license for the digital product, said program asks the user to buy a license of the product.

1 Title of invention Digital product license control system based on independent digital product registration server Technical field Digital product license control Background art Software license control, digital product license control, cryptography Publication – Garfinkel, Simson. PGP(Pretty Good Privacy).

Schneier, Bruce. Applied Cryptography

Disclosure of invention

The registration server is independent of digital product manufacturers and open to all digital product manufacturers. Every digital product needs to be modified to participate in this new digital product license control system. The digital product manufacturer is registered to the registration server. Normally such digital products as MP3 or VOD files, which cannot be executed alone, are processed by specific programs (players). The manufacturer registers his digital product, with the player information, to the server and gets product registration file of the product from the server. The product manufacturer merges the product and the product registration file and encrypts them using manufacturer digital product license control program. The output is the format of public digital product. Public digital product has specific file type such as "sampleMP3.ds1". If a public digital product is executed on user computer, said digital product is linked to digital product execution program which is subsystem of user digital product license control program. Normally digital products are downloaded from Internet and are executed by double clicking. Upon double clicking of the digital product, the digital product execution program processes the digital product. The program decrypts said digital product and reads the product ID from the product registration file. And said program checks the license file to know whether there is usage license for said digital product. The license file was received from a digital product registration server. If there is no license for the digital product, said program asks the user to buy a license of the product. If user doesn't buy it, said program stops the running of the digital product. If the user buys it, the program receives new license file, which includes the purchased license, from the server and the program changes the digital product to a personal digital product format. Personal digital product has specific file type such as "sampleMP3.ds2". If there is

the license, the program can change the public digital product to personal digital product any time. Personal digital product cannot be interpreted without the user-ID file which was used in creating said personal digital product. The program calls player to execute personal digital product. Unauthorized user cannot use the personal digital product. Also the license file cannot be used by unauthorized user because said file is encrypted by the user public key and digital signed by the secret key of a digital product registration server. To use a license file, user needs the secret key of the user and needs passphrase to activate the secret key. The license file is digital signed by digital product registration server and cannot be modified by a user to add unauthorized license. The license file includes 3 information in addition to license information. They are user ID, CPU ID and owner ID. If user ID in license file is different from user ID of user-ID file, the license file is ignored by user digital product license control program. If CPU ID in license file is different from CPU ID of the processor, such as PSN of Intel processor Pentium III, the license file is ignored by user digital product license control program. So, even authorized user cannot execute personal digital product on unauthorized computers.

All digital product manufacturers register their products to the central digital product registration server. The central registration server distributes the registered product information to digital product registration servers all over the world. 3 types of registration need to be done by user. User registration,

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CPU registration and digital product usage license registration. User does user registration for himself once per person. After that, the user registers his CPU once per CPU. User registers digital product usage license once per every product of specific CPU. All the registration is done after the connection to a digital product registration server. On user registration, the user gets partial user-ID file from the digital product registration server. After receiving the partial user-ID file, user digital product license control program attaches public/secret key pair of the user and public key of the registration server of the user to the partial user-ID file. This user-ID file is essential in registering CPU and purchasing digital product. The user-ID file is independent of any CPU and this file needs to be copied to all of his CPUs. On CPU registration, user gets license file from digital product registration server. And the license file is updated every time the user purchases new digital product or upgrades a digital product. The digital product information is added to the license file every time new product is purchased or a product is upgraded. Also because of expiration date, the license file is refreshed periodically. Expiration date or refresh period prevents unauthorized long-term use of the user-ID file or license file. Digital product usage license is given to a specific CPU of a specific user. In addition to direct purchase through public digital product execution, there is a indirect purchase. To purchase a digital product without executing the public digital product, user selects product category on license control program screen, and then selects the digital product on displayed relevant digital products in that product category. Then, the user license control program sends digital product purchase request to the digital product registration server. The license file is dependent on a specific CPU. The license file is given to a specific CPU of a specific user. Both the user-ID file and license file is encrypted by user public key and digital signed by digital product registration server secret key. So, only the registration server can modify said files. In addition to above method - called user/CPU based license, there are two more methods. One is user-based license. The license is given to a specific user without having any CPU restriction on its license file. This license can be used on any CPU and strongly controlled by the user. The other method is CPU-based license. The license is given to a specific CPU without having any user restriction on its license file. Normally license file is encrypted by user public key but CPU based license file is encrypted by the CPU public key. For CPU based license, one pair of secret/public key is created just for the CPU. In case of User/CPU based license and user based license, the pair of secret/public key of the user is used without creating new key pair for the CPU. In case of company, there is an owner in addition to an user of a PC/workstation. This owner has right to change the user of a PC/workstation. If an employee quits the company, the company (owner) is to assign new user to the PC/workstation. There is owner information in addition to user information in license file. If digital

product is executed on a specific machine such as MP3 player, which doesn't have such full configuration as personal computer, the digital product needs to be purchased on a computer and to be transferred to said machine. The user needs to move his user-ID file, license file and personal digital products to said machine. Said user-ID file, license file are simplified ones and created by user digital license control program. Basically said machine is treated as part of the computer which has the license file. Said machine has no CPU ID and is treated as if said machine has same CPU ID as said computer. If a user of said machine doesn't have a computer, it can be done on any computer. User digital license control program provides the way to create user-ID file and license file for said machine.

Best mode for carrying out the invention

Method of digital product license control based on independent digital product registration server comprising the steps of:

- . creating secret/public key pair for a digital product manufacturer by the manufacturer digital product license control program on the manufacturer computer.
- . connecting central digital product registration server, sending said manufacturer's public key to said registration server and receiving the

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public key of said registration server.

- . registering manufacturer once per manufacture to the central digital product registration server and receiving partial user-ID file from digital product registration server. Manufacturer digital product license control program attaches the manufacturer secret/public key pair and the public key of central digital product registration server to the partial user-ID file that includes manufacturer information encrypted by manufacturer public key and digital signed by the sever secret key.
- registering digital product, with player information, to central digital product registration server and receiving product registration file of the product from the server.
- distributing the product information to all digital product registration servers in the world by central digital product registration server. Registered digital product information includes product ID, price, player name, etc. So, user can select digital product from the registered digital product list. It is easier for user to buy a digital product by double clicking the public digital product and following the instruction given by the user digital product execution program.
- . merging the product and said product registration file and encrypting them by manufacturer digital product license control program. The output is the format of public digital product.
- . creating secret/public key pair for a user by the user digital product license

control program on the user computer.

- . connecting digital product registration server by selecting one from the digital product registration server list, sending said user's public key to said registration server and receiving the public key of said registration server.
- . registering user once per person to the digital product registration server and receiving partial user-ID file from digital product registration server. User digital product license control program attaches the user secret/public key pair and the public key of the user's digital product registration server to the partial user-ID file that includes user information encrypted by user public key and digital signed by the sever secret key. This user-ID file is essential in registering CPU and in registering digital product usage license.
- . registering CPU for his computer hardware once per CPU to said digital product registration server and receiving license file that includes CPU information encrypted by user public key and digital signed by digital product registration server secret key.
- . downloading public digital products from Internet by user
- . double clicking public digital product on user computer.
- . linking said digital product to digital product execution program of user digital product license control program.
- . processing public digital product, decrypting said public digital product and reading the product ID from the product registration file by the linked digital product execution program.

- . checking the license file to know whether there is usage license for said digital product.
- . buying a license for the product or stopping the process, if there is no license for the digital product.
- . receiving new license file which includes the purchased license.
- . changing the digital product to a personal product format if there is license.
- . calling player to execute personal digital product
- storing user information, CPU information and digital product usage license information in digital product registration server database by the server.
- . replicating digital product registration server database to central digital product registration server database for backup purpose and for cross digital product registration server function such as the change of digital product registration server and change of user who is registered to a different digital product registration server from the former user.
- . updating user-ID file and license file based on expiration date or refresh period by user. Expiration date or refresh period prevents unauthorized long-term use of the user-ID file or license file.
- . changing the user of a CPU by the owner of the CPU in case of user change. License file has owner information.

Digital product license control system works based on following servers and software packages:

- . Central digital product registration server gets digital product information from all digital product manufacturers and distributes the registered product information to digital product registration servers all over the world. Said central registration server does the interface between all digital product manufacturers and digital product registration centers.
- . Normal digital product registration servers give user the digital product information that is given by central digital product registration server, get registration request from users and give license file to users.
- . Software packages for general users, normal digital product registration servers, central digital product registration server and digital product manufacturers.

What is claimed is:

- 1. Method of digital product license control based on independent digital product registration server comprising the steps of:
- . creating secret/public key pair for a digital product manufacturer by the manufacturer digital product license control program on the manufacturer computer.
- connecting central digital product registration server, sending said manufacturer's public key to said registration server and receiving the public key of said registration server.
- registering manufacturer once per manufacture to the central digital product registration server and receiving partial user-ID file from digital product registration server. Manufacturer digital product license control program attaches the manufacturer secret/public key pair and the public key of central digital product registration server to the partial user-ID file that includes manufacturer information encrypted by manufacturer public key and digital signed by the sever secret key.
- . registering digital product, with player information, to central digital product registration server and receiving product registration file of the product from the server.
- . distributing the product information to all digital product registration

servers in the world by central digital product registration server. Registered digital product information includes product ID, price, player name, etc. So, user can select digital product from the registered digital product list. It is easier for user to buy a digital product by double clicking the public digital product and following the instruction given by the user digital product execution program.

- . merging the product and said product registration file and encrypting them by manufacturer digital product license control program. The output is the format of public digital product.
- . creating secret/public key pair for a user by the user digital product license control program on the user computer.
- . connecting digital product registration server by selecting one from the digital product registration server list, sending said user's public key to said registration server and receiving the public key of said registration server.
- . registering user once per person to the digital product registration server and receiving partial user-ID file from digital product registration server. User digital product license control program attaches the user secret/public key pair and the public key of the user's digital product registration server to the partial user-ID file that includes user information encrypted by user public key and digital signed by the sever secret key. This user-ID file is essential in registering CPU and in registering digital product usage license.
- . registering CPU for his computer hardware once per CPU to said digital

product registration server and receiving license file that includes CPU information encrypted by user public key and digital signed by digital product registration server secret key.

- . downloading public digital products from Internet by user
- . double clicking public digital product on user computer.
- . linking said digital product to digital product execution program of user digital product license control program.
- . processing public digital product, decrypting said public digital product and reading the product ID from the product registration file by the linked digital product execution program.
- . checking the license file to know whether there is usage license for said digital product.
- . buying a license for the product or stopping the process, if there is no license for the digital product.
- . receiving new license file which includes the purchased license.
- . changing the digital product to a personal product format if there is license.
- . calling player to execute personal digital product
- storing user information, CPU information and digital product usage license information in digital product registration server database by the server.
- . replicating digital product registration server database to central digital product registration server database for backup purpose and for cross digital product registration server function such as the change of digital product

registration server and change of user who is registered to a different digital product registration server from the former user.

- . updating user-ID file and license file based on expiration date or refresh period by user. Expiration date or refresh period prevents unauthorized long-term use of the user-ID file or license file.
- . changing the user of a CPU by the owner of the CPU in case of user change. License file has owner information.
- 2. A method according to claim 1 wherein connecting to the only one digital product registration server automatically. Only one registration server exists in the world and does all registration service.

Consequently, there is no replication from registration server to central registration server and no distribution of registered product information from central registration server to registration servers, since there is only one server.

- 3. A method according to claim 1 wherein validating digital product usage license without giving limitation to a specific CPU. User digital product license control program on user computer doesn't check CPU information if "user based license" indicator is on in license file.
- 4. A method according to claim 1 wherein validating digital product usage license without giving limitation to the specific user described in license file.

User digital product license control program on user computer doesn't check user information if "CPU based license" indicator is on in license file. Instead of entering "user passphrase" user enters "passphrase of the CPU". In registering CPU for the computer once per CPU, user digital product license control program creates secret/public key pair for the CPU and sends the public key to digital product registration server. The license file is encrypted by the CPU public key and digital signed by digital product registration server

5. A method according to claim 1 wherein transferring user-ID file, license file and personal digital products to a specific machine such as MP3 player. If digital product is executed on said machine, which doesn't have such full configuration as personal computer, the digital product needs to be purchased on a computer and to be transferred to said machine. Said user-ID file, license file are simplified ones and created by user digital license control program. Basically said machine is treated as part of the computer which has the license file. Said machine has no CPU ID and is treated as if said machine has same CPU ID as said computer. If a user of said machine doesn't have a computer, it can be done on any computer. User digital license control program provides the way to create user-ID file and license file for said machine.

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 99/00277

CLASSIFICATION OF SUBJECT MATTER		
IPC ⁷ : G 06 F 12/14; H 04 L 9/00		
According to International Patent Classification (IPC) or to bo B. FIELDS SEARCHED	th national classification and IPC	
Minimum documentation searched (classification system follo	wed by classification symbols)	
IPC ⁷ : G 06 F; H 04 L	wed by blassification symbols)	
	to the extent that such documents are included in the fields sear	ched
		01100
Electronic data base consulted during the international search	(name of data base and, where practicable, search terms used)	
WPI, PAJ, EPODOC		
C. DOCUMENTS CONSIDERED TO BE RELEVAN	TT	
Category Citation of document, with indication, where appro	priate, of the relevant passages Relevant to cl	aim No.
A WO 98/42098 A1 (CRYPOWORKS) totality.	29 April 1998 (29.04.98)	
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Further documents are listed in the continuation of Box (C. See patent family annex.	
Special categories of cited documents:	"T" later document published after the international filing date or	priority
A" document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the application but cited to under the principle or theory underlying the invention	rstand
"E" earlier application or patent but published on or after the internati	onal "X" document of particular relevance; the claimed invention can	
filing date "L" document which may throw doubts on priority claim(s) or which	considered novel or cannot be considered to involve an invel is when the document is taken alone	ntive step
cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention can	not be
"O" document referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step when the document combined with one or more other such documents, such con	
means "P" document published prior to the international filing date but later	being obvious to a person skilled in the art than "&" document member of the same patent family	
the priority date claimed		
Date of the actual completion of the international search	Date of mailing of the international search report	
6 April 2000 (06.04.2000)	31 July 2000 (31.07.2000)	
Name and mailing adress of the ISA/AT Austrian Patent Office	Authorized officer	
Kohlmarkt 8-10; A-1014 Vienna	Fastenbauer	
Facsimile No. 1/53424/535	Talanhana No. 1/53/12/1/47	
Form PCT/ISA/210 (second sheet) (July 1998)	Telephone No. 1/53424/447	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR 99/00277

	Patent document cited Publication in search report date		Publication date	ı	Patent fa membe	amily	Publication date
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WO	Al	9842098	24-09-1998	AU EP	A1 A1	67591/98 968585	12-10-1998 05-01-2000
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